

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

10/18/2011

Edward Curley  
Assistant District Attorney, Suffolk County

Dear ADA Curley,

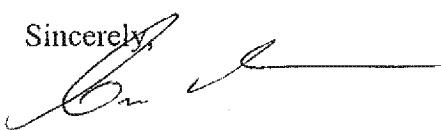
Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]

[REDACTED] Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,  
  
Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

## Curriculum Vitae

### Annie Khan (Dookhan)

#### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

#### **Experience:**

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of all analytical instruments.

\*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

\*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

\*Notary Public.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

\*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

#### **Additional Training:**

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

#### **Association:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

# Curriculum Vitae

Kate A. Corbett

## Education

### **Bachelor of Science Degree, CHEMISTRY May 2003**

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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## Employment

### **Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

### **Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

### **Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

### **Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



## DRUG RECEIPT

CC # \_\_\_\_\_  
BOOK # 72  
PAGE # 18  
DESTRUCTION # \_\_\_\_\_

District/Unit B-31 DCW

Name & Rank of Arresting Officer P.O. DARAN EDWARDS ID# 80419

**To be completed by ECU personnel only**

Name and Rank of Submitting Officer Colonel ID# 11286

Received by \_\_\_\_\_ Date \_\_\_\_\_

ECU Control #

No. [REDACTED] Date Analyzed: 11/15/10  
City: Boston D.C.U. Police Dept.  
Officer: P.O. KEITH BUTLER  
Def: [REDACTED]  
Amount: Subst: SUB  
No. Cont: 1 Cont: paper packet  
Date Rec'd: 11/02/2010 No. Analyzed:  
Gross Wt.: 3.70 Net Weight: 0.16  
# Tests: 6/8  
• 2/6AC  
Prelim: Cocaine (C) Findings: Cocaine

No. [REDACTED] Date Analyzed: 11/15/10  
City: Boston D.C.U. Police Dept.  
Officer: P.O. KEITH BUTLER  
Def: [REDACTED]  
Amount: Subst: SUB  
No. Cont: 1 Cont: pb  
Date Rec'd: 11/02/2010 No. Analyzed:  
Gross Wt.: 20.62 Net Weight: 13.55  
# Tests: 6/8  
• 2/6AC  
Prelim: Cocaine (C) Findings: Cocaine

# DRUG POWDER ANALYSIS FORM

SAMPLE # XXXXXXXXXX AGENCY Boston ANALYST ADJ

No. of samples tested: \_\_\_\_\_ Evidence Wt. \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( ) : 0.4730

Off white chunky substance Gross Wt ( ) : \_\_\_\_\_

17 188. Pkg. Wt: \_\_\_\_\_

Net Wt: 0.1637

Netwt = 0.1573

## PRELIMINARY TESTS

### Spot Tests

Cobalt  
Thiocyanate ( - ) +

Marquis -

Froehde's -

Mecke's -

### Microcrystalline Tests

Gold  
Chloride +

TLTA ++

### OTHER TESTS

## PRELIMINARY TEST RESULTS

RESULTS Cocaine

DATE 11-9-10

## GC/MS CONFIRMATORY TEST

RESULTS Cocaine

MS  
OPERATOR KAC

DATE 11-15-10

# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST AS7

No. of samples tested: \_\_\_\_\_ Evidence Wt: \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( ): 16.5520

Off white chunky substance  
17-26

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 15.5596

Net Wt = 15.5443

## PRELIMINARY TESTS

### Spot Tests

Cobalt Thiocyanate (-) +

Marquis -

Froehde's -

Mecke's \_\_\_\_\_

### Microcrystalline Tests

Gold Chloride →

TLTA (-) +

### OTHER TESTS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 11-10-10

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

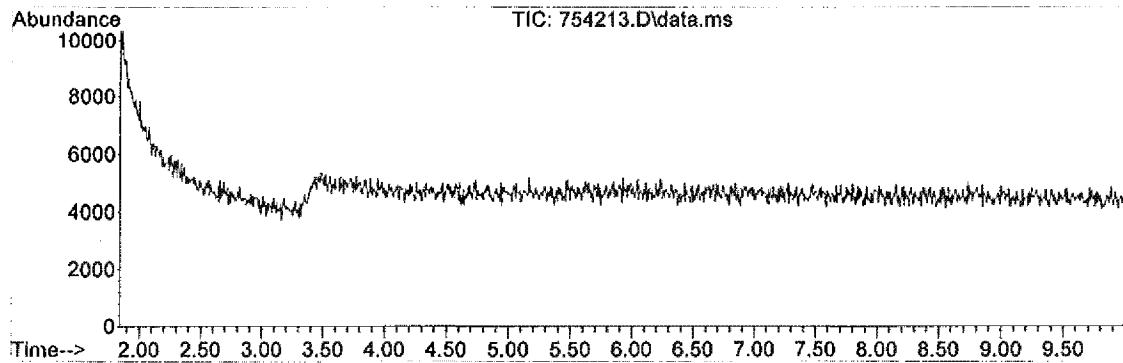
MS  
OPERATOR KAC

DATE 11-15-10

VKAC  
10/12/11

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Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

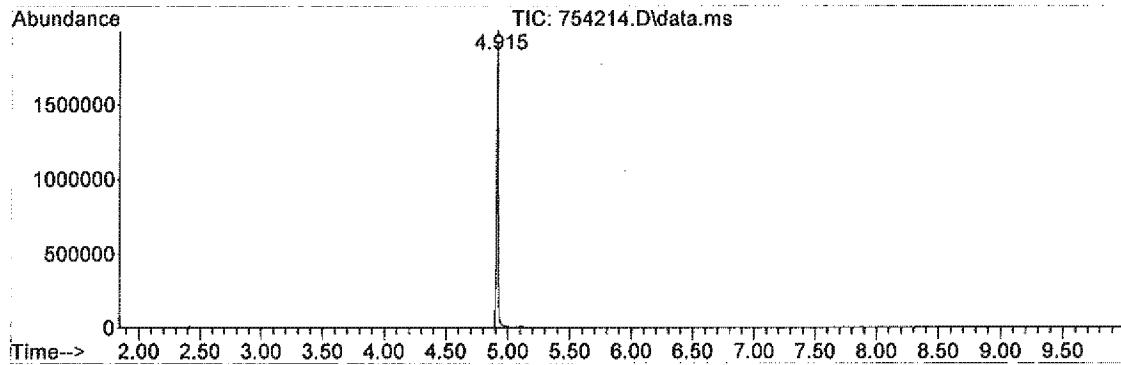


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

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Operator : ASD/KAC  
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Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 14  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



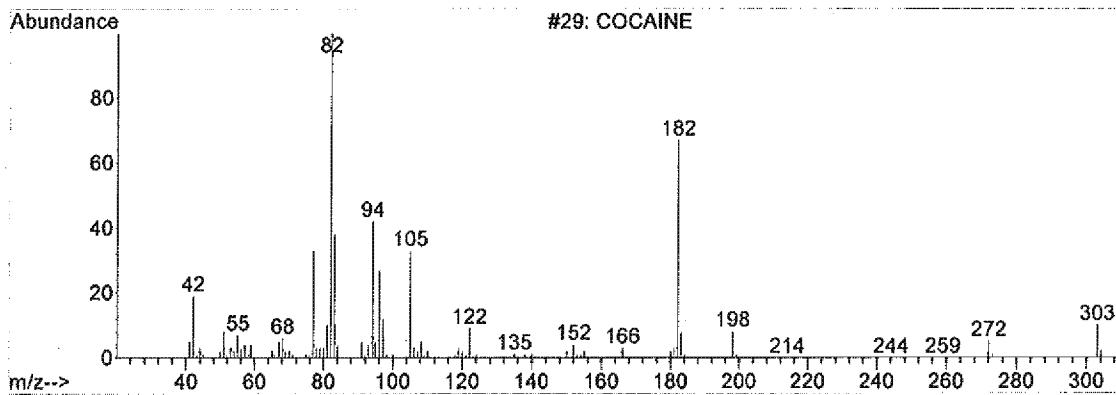
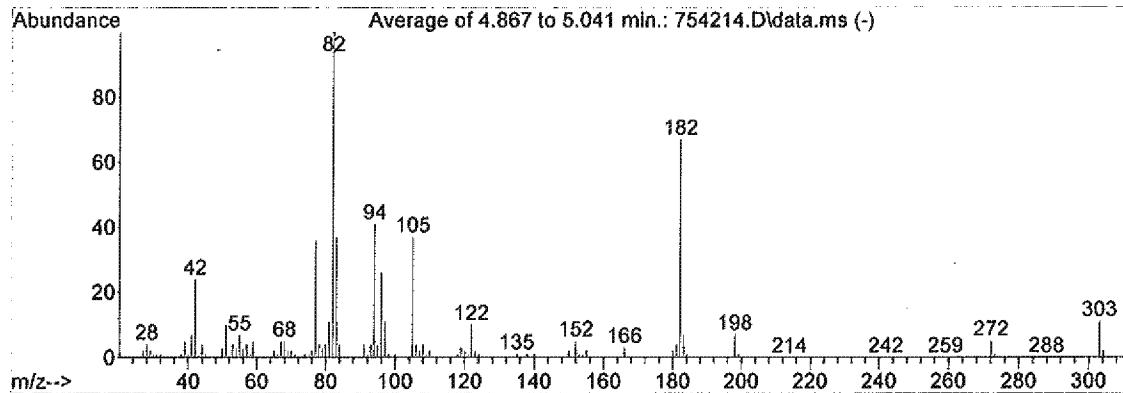
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## Information from Data File:

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Date Acquired : 11 Nov 2010 9:50  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 14  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

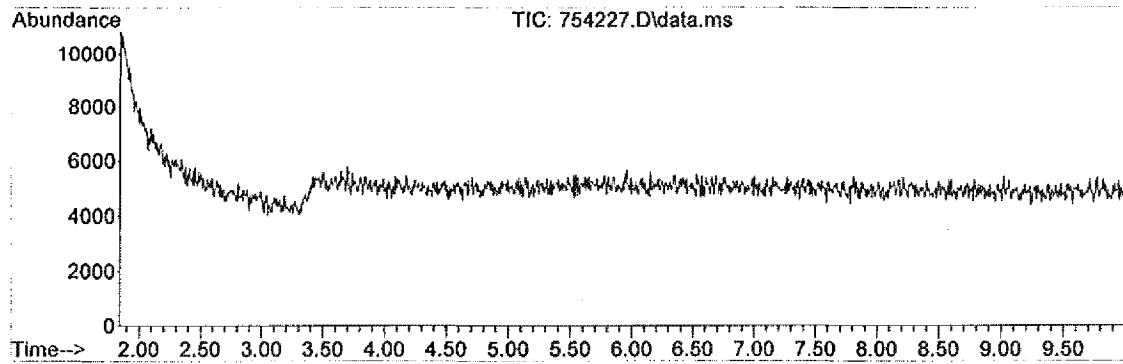
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C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.92	C:\Database\SLI.L COCAINE	000050-36-2	99



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Integrator : RTE

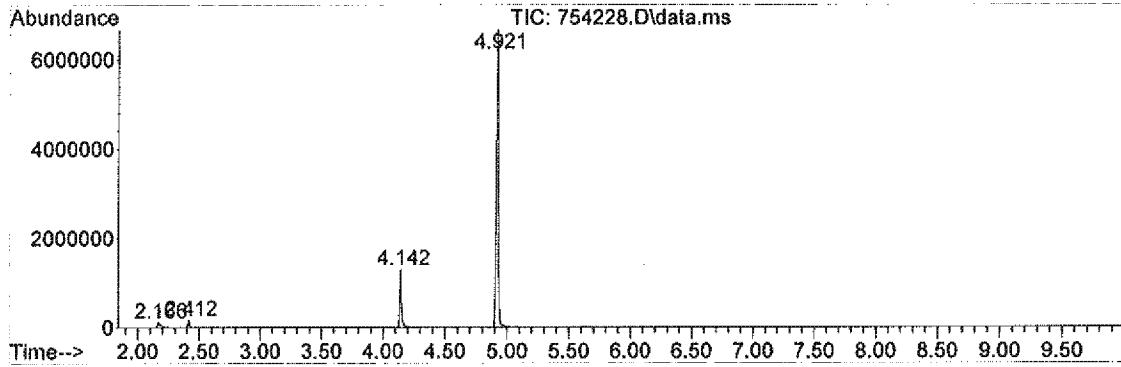


Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

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Operator : ASD/KAC  
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Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 28  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



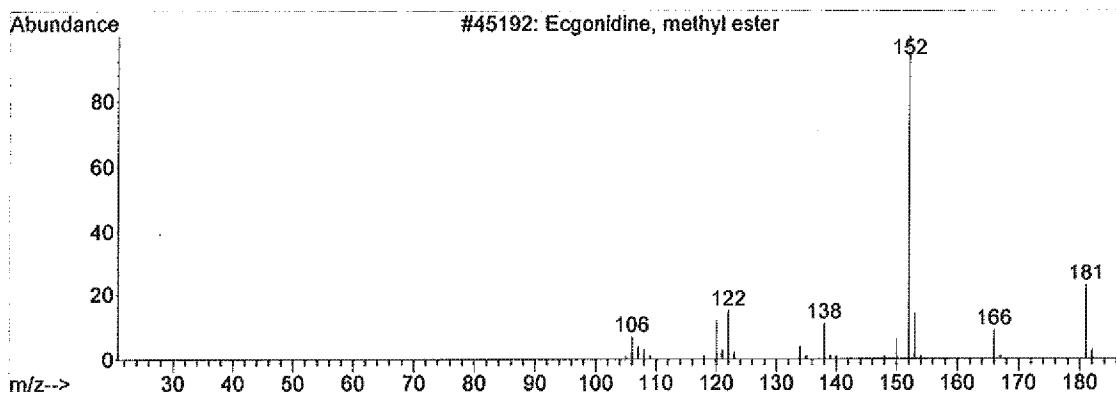
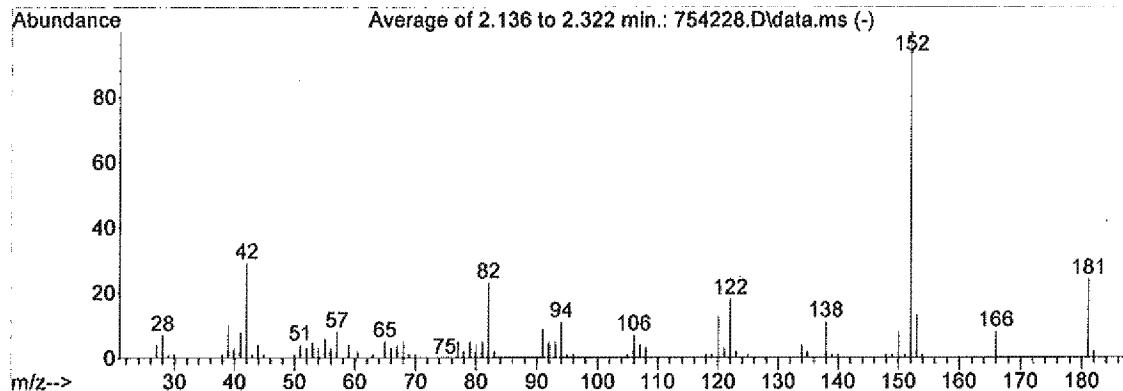
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2.412	155047	1.55	1.86
4.142	1288492	12.90	15.48
4.921	8325836	83.35	100.00

## Information from Data File:

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Date Acquired : 11 Nov 2010 12:52  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 28  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.17	C:\Database\NIST08.L		
		Ecgonidine, methyl ester	127379-24-2	97
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	89
		2 (1H)-Pyridinone, 4-hydroxy-6-methy	007135-82-2	47

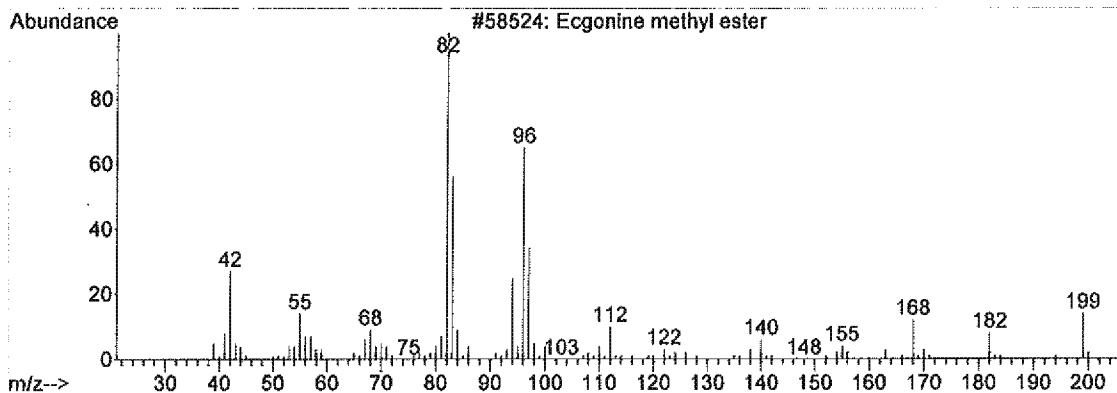
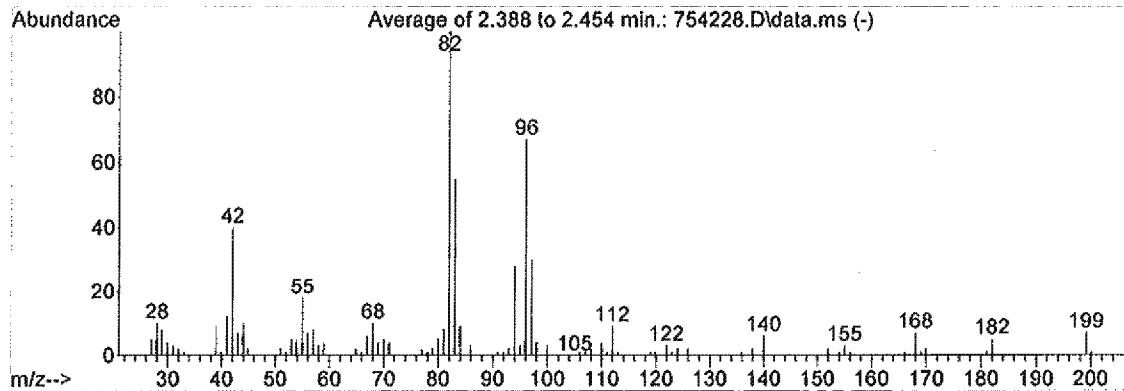


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Submitted by : ASD  
Vial Number : 28  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.41	C:\Database\NIST08.L		
		Ecgonine methyl ester	106293-60-1	97
		Ecgonine methyl ester	106293-60-1	95
		Ecgonine methyl ester	106293-60-1	91

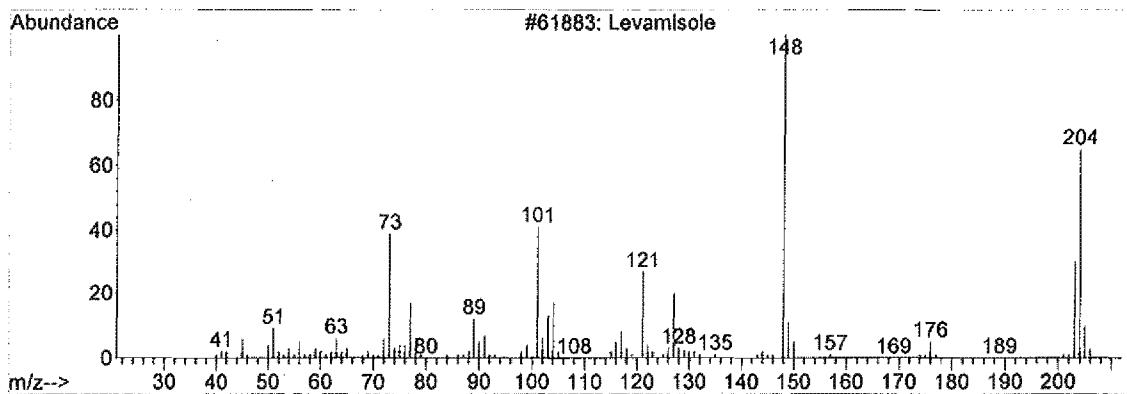
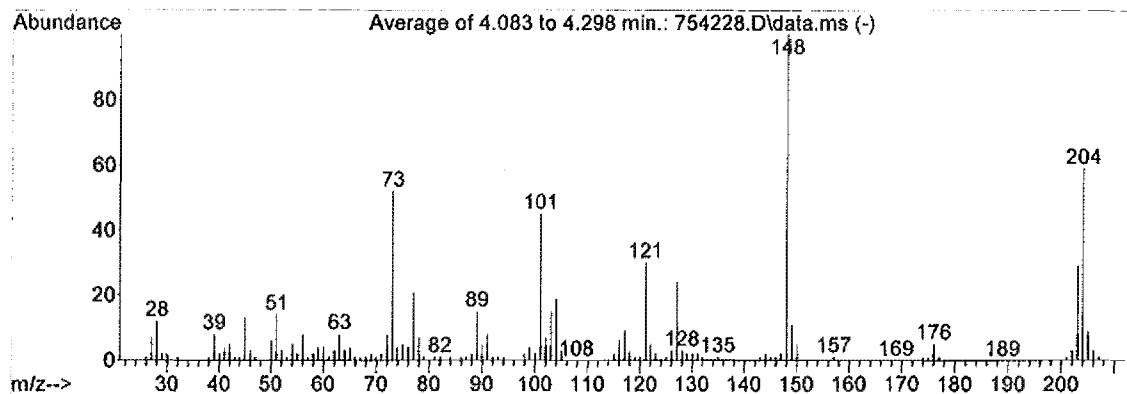


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 Submitted by : ASD  
 Vial Number : 28  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST08.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	4.14	C:\Database\NIST08.L		
		Levamisole	006649-23-6	99
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	99
		Levamisole	006649-23-6	98

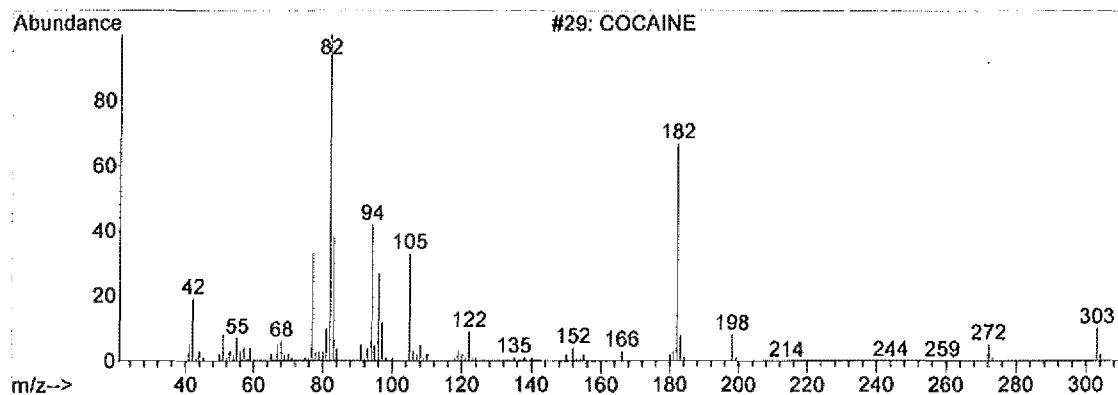
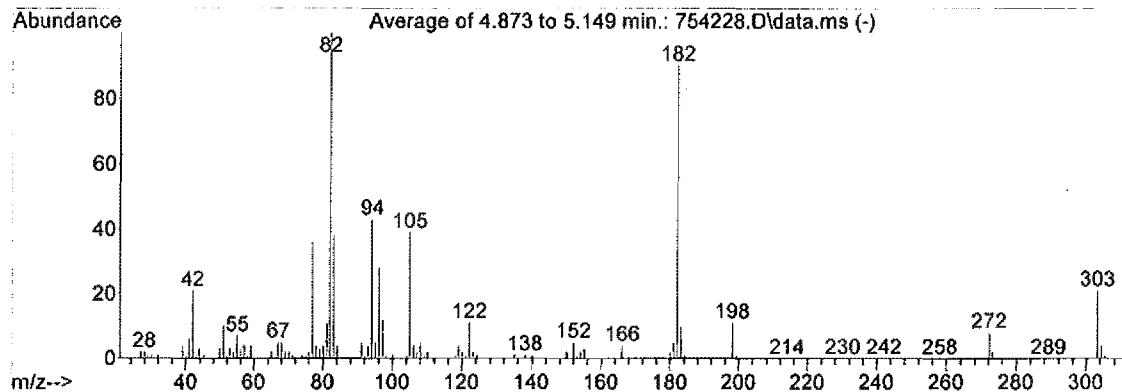


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Vial Number : 28  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	4.92	C:\Database\SLI.L COCAINE	000050-36-2	99

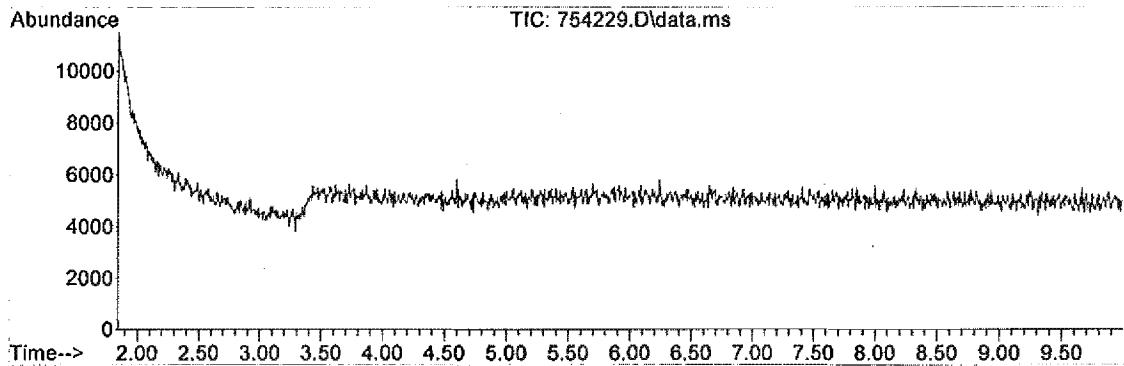


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Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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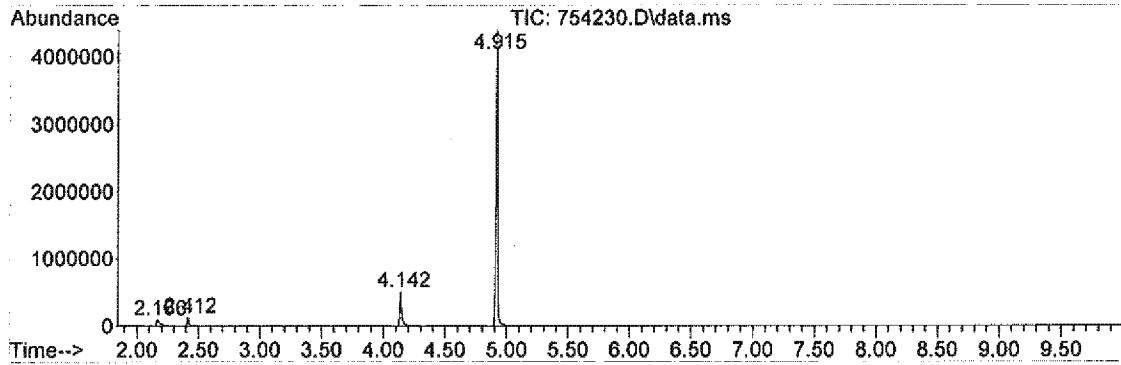
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\*\*\*NO INTEGRATED PEAKS\*\*\*

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Operator : ASD/KAC  
Date Acquired : 11 Nov 2010 13:18  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 30  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



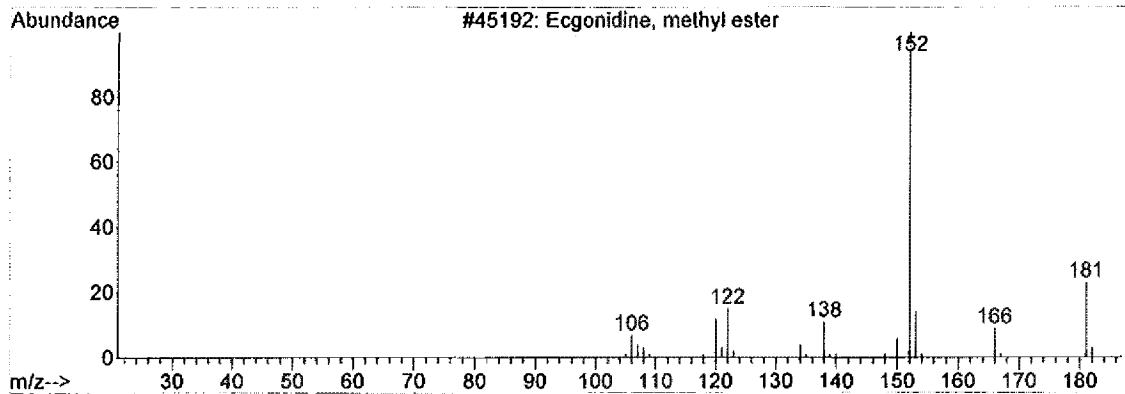
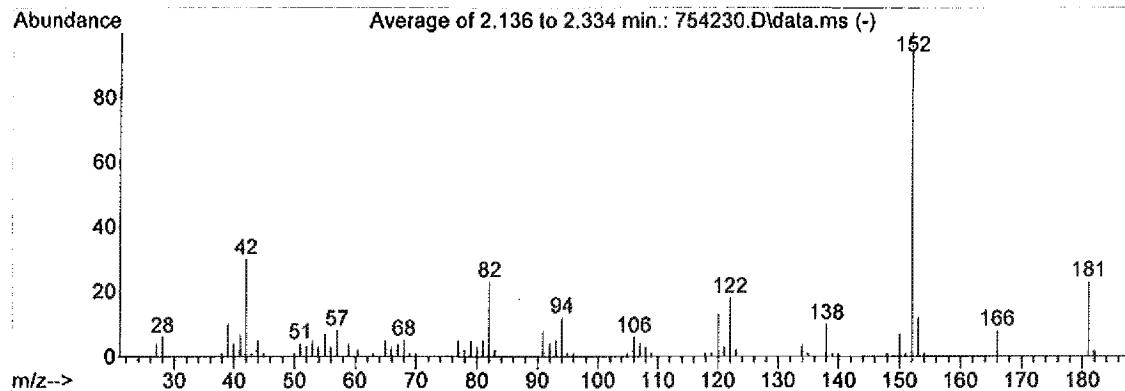
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2.412	113394	2.11	2.54
4.142	623194	11.58	13.96
4.915	4465489	82.98	100.00

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM8\11\_11\_10\754230.D  
 Operator : ASD/KAC  
 Date Acquired : 11 Nov 2010 13:18  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 30  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST08.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.17	C:\Database\NIST08.L		
		Ecgonidine, methyl ester	127379-24-2	96
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	92
		2 (1H) -Pyridinone, 4-hydroxy-6-methy	007135-82-2	49

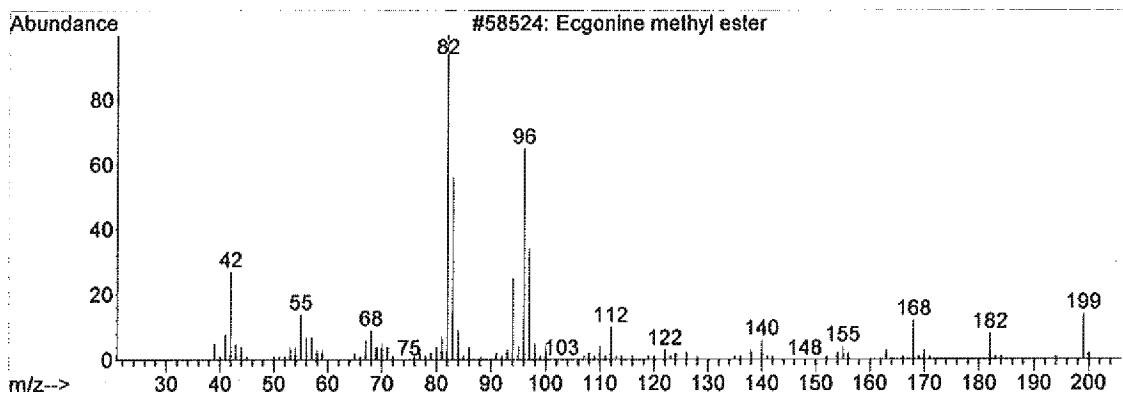
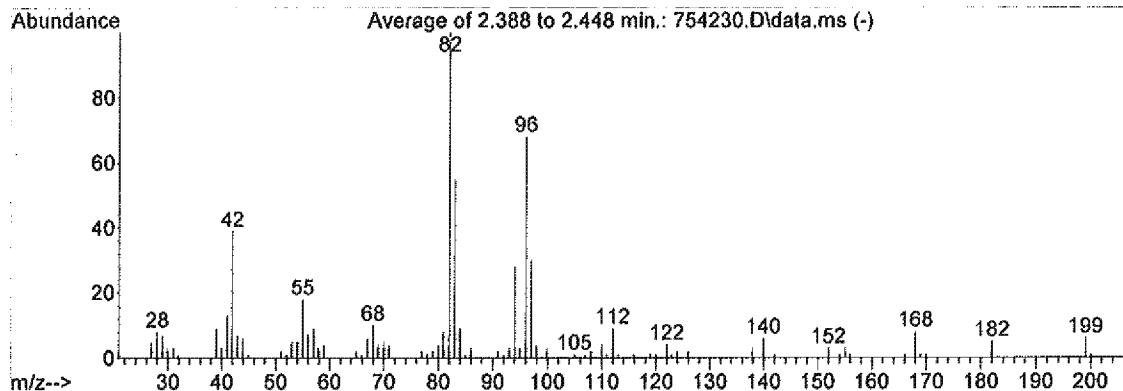


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Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 30  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.41	C:\Database\NIST08.L		
		Ecgonine methyl ester	106293-60-1	97
		Ecgonine methyl ester	106293-60-1	94
		Pseudoecgonine methyl ester	099189-88-5	74

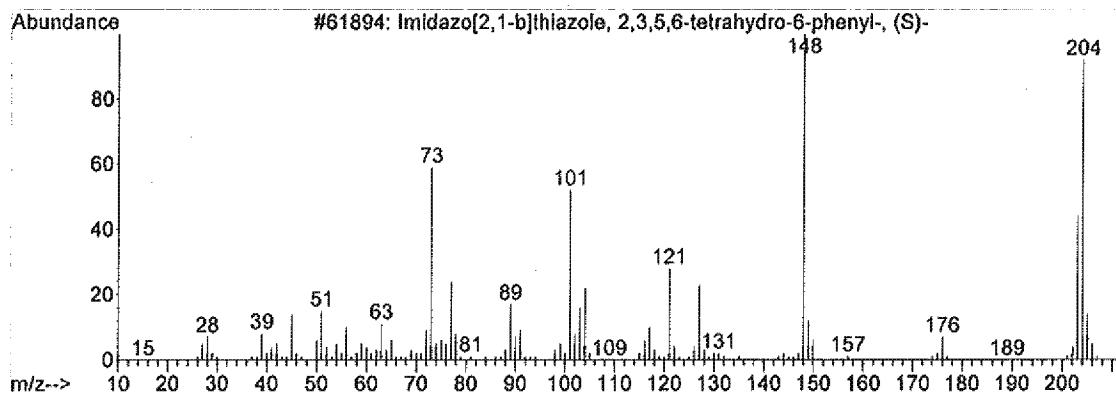
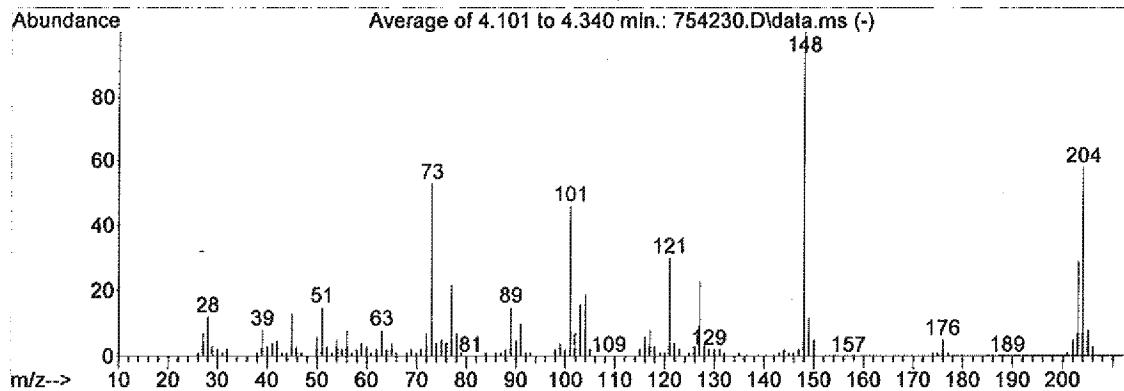


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 Date Acquired : 11 Nov 2010 13:18  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 30  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST08.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	4.14	C:\Database\NIST08.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Levamisole	006649-23-6	98
		Levamisole	006649-23-6	98

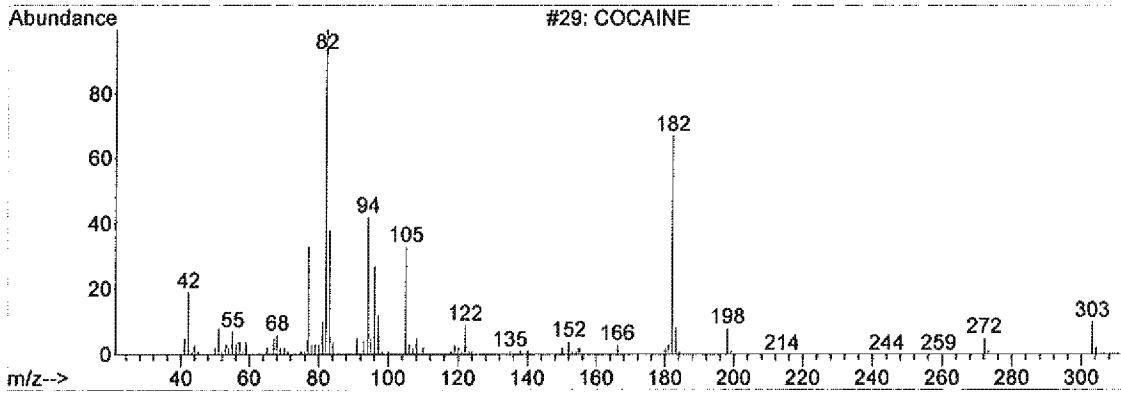
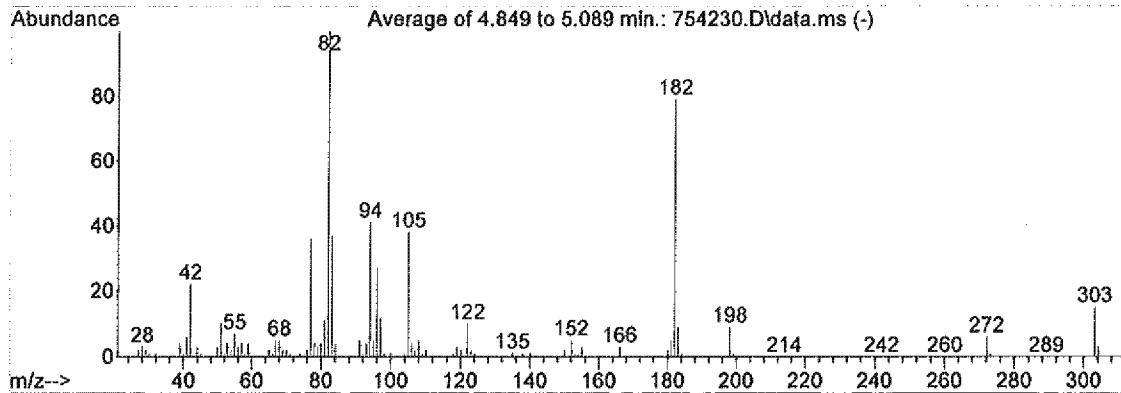


## Information from Data File:

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Date Acquired : 11 Nov 2010 13:18  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 30  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

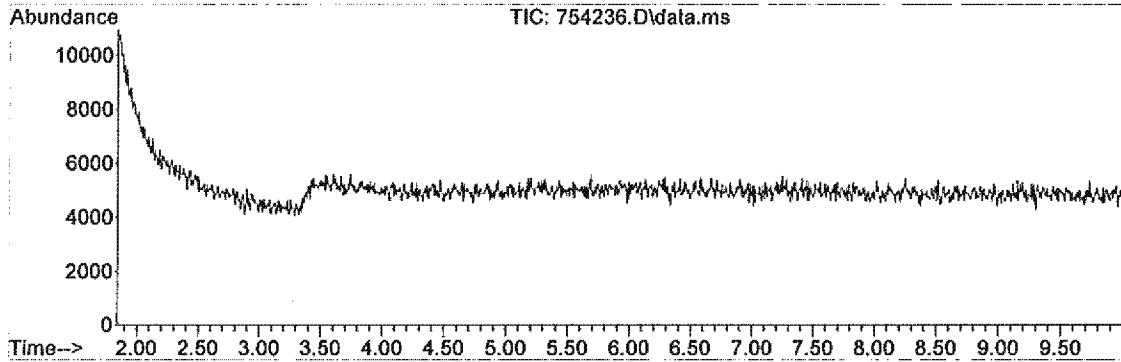
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
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Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



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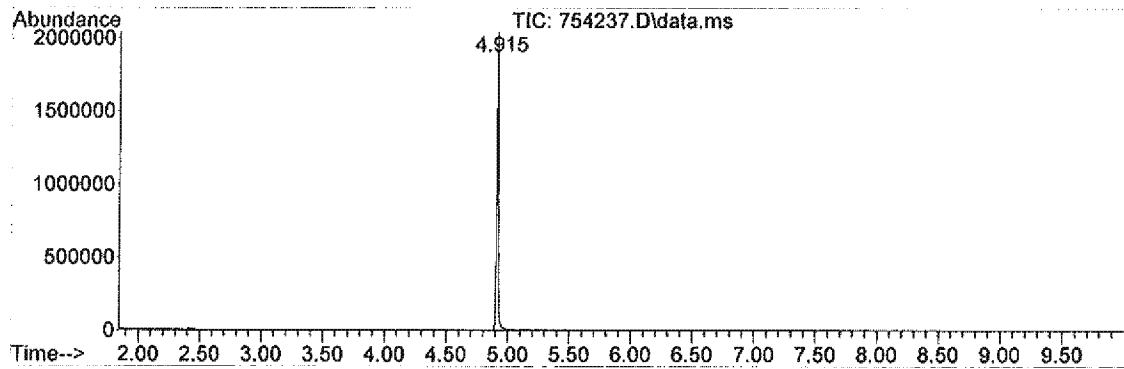
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q4-2010\SYSTEM8\11\_11\_10\754237.D  
Operator : ASD/KAC  
Date Acquired : 11 Nov 2010 14:49  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 14  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.915	1993451	100.00	100.00

## Information from Data File:

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Operator : ASD/KAC  
Date Acquired : 11 Nov 2010 14:49  
Sample Name : COCAINE STD  
Submitted by : ASD  
Vial Number : 14  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST08.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.92	C:\Database\SLI.L COCAINE	000050-36-2	99

